## APPENDIX Ia



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gi3746533_human SEQ25_mouse SEQ26_Arab SEQ2_Arab SEQ14_rice SEQ16_soy SEQ12_wheat	1 MGDRGSSRRRRTGSRPSSHGGGGPAAAEEEVRDAAAG 1 MGDRGGAGSSRRRRTGSRVSVQGGSGPKVEEDEVRDAAVS 1 MAILDSAGVTTVTENGGGEFVDLDRLRRRKSRSDSSNGLLLSGSDNNSPSDDVGAPADVR 1 MAILDSAGVTTVTENGGGEFVDLDRLRRRKSRSDSSNGLLLSGSDNNSPSDDVGAPADVR 1 MVGSDGDGDGGGGEAHAGGPRRRAGQLRGRLRDEAAPGSPPRPRPRPR 1 MAISDEPESVATALNHSSLRRRPSATSTAGLFNSPETTTDSSGDDLAKDSGSD 1 MSKGNPDPHLPGSFLPSHGGPPPKPKTPPRTFRNLPSSSTHGPAPSVAAATIAT 1
	*
qi3746533 human	38 PDVGAAGDAPAPAPNKDGDAGVGSGHWELRCHRLODS
SEQ25_mouse	
SEQ26_Arab SEQ2_Arab	61 DRIDSVVNDDAQGTANLAGDNNGGGDNNGGGRGGGEGRGNADATFTYRPSVPAHRRARES 61 DRIDSVVNDDAQGTANLAGDNNGGGDNNGGGRGGGEGRGNADATFTYRPSVPAHRRARES
SEQ14_rice	1 GGDSNGRSVLRPGGGGGRG
SEQ16_soy SEQ22_wheat	SINSDDAAVNSQQQNEKQDTDFSVLKFAYRPSVPAHKKV PPSASAAPLPPTVHGEAAHGAAAARRDALLPGVGAAHRRV
	120
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gi3746533_human	75 LFSSDSGFSNYR-GILNWCVVMLILSNARLFLENLIKYGILVDPIQVVSLFLKDPHSWPA
SEQ25_mouse	84 LFSSDSGFSNYR-GILNWCVVMLILSNARLFLENLIKYGILVDPIQVVSLFLKDPYSWPA
SEQ26_Arab	121 PLSSDAIFKQSHAGLFNLCVVVLIAVNSRLIIENLMKYGWLIRTDFWFSSRSLRDWPL
SEQ2_Arab	121 PLSSDAIFKQSHAGLFNLCVVVLIAVNSRLIIENLMKYGWLIRTDFWFSSRSLRDWPL
SEQ14_rice	93 PLSSDAIFKQSHAGLFNLCIVVLVAVNSRLIIENLMKYGLLIRAGFWFNDKSLRDWPL
SEQ16_soy	97 PLSSDTIFRQSHAGLFNLCIVVLVAVNSRLIIENLMKYGWLIKSGFWFSSKSLRDWPL
SEQ22_wheat	100 PLSSDAIFRQSHAGLLNLCIVVLIAVNSRLIIENLMKYGLLIRAGFWFSARSLGDWPL
	121

## APPENDIX Ib

gi3746533_human SEQ25_mouse SEQ26_Arab SEQ2_Arab SEQ14_rice SEQ16_soy SEQ22_wheat	* * * * * * * * * * * * * * * * * * *
gi3746533_human SEQ25_mouse SEQ26_Arab SEQ2_Arab SEQ14_rice SEQ14_rice SEQ16_soy SEQ22_wheat	194 SLLALMAHTILFLKIFSYRDVNSWCRRARAKAASAGKKASSAAAPHTVSYPDNLTYRD 203 SVFALASYSIMFLKLYSYRDVNLWCRQRRVKAKAVSTGKKVSGAAQQAVSYPDNLTYRD 239 VTLMLLT-CIVWLKLVSYAHTSYDIRSLANAADKANPEVSYYVSLKS 239 VTLMLLT-CIVWLKLVSYAHTSYDIRSLANAADKANPEVSYYVSLKS 211 FLLIFIA-CIVWLKLVSYAHTNYDIRQLTMGGKKVDNELSTVDMDNLQPPTLGN 215 VTLMLFS-CVVWLKLVSYAHTNYDMRALTKLVEKGEALLDTLNMDYPYNVSFKS 218 FVLMFIA-SITWLKLVSFAHTNYDIRILSQSIEKGATHGSSIDEENIKGPTINS 241
gi3746533_human SEQ25_mouse SEQ26_Arab SEQ2_Arab SEQ14_rice SEQ16_soy SEQ22_wheat	** ** ** ** ** ** ** ** ** ** ** ** **

## APPENDIX IC

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	2 8 2			361		*	7	•	4.	4	383 EXW	_		421	
	gi3746533_human SEQ25_mouse SEQ26_Arab	SEQ2_Arab SEQ14_rice	SEQ16_soy SEQ22_wheat	İ			gi3746533_human	SEQ25_mouse	SEQ26_Arab	SEQ2_Arab	$SEQ14\_rice$	$SEQ16\_soy$	SEQ22_wheat		

## APPENDIX Id

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gi3746533_human SEQ25_mouse SEQ26_Arab SEQ2_Arab SEQ14_rice SEQ16_soy SEQ16_soy	432 TGM 443 TAM 464 LGI 464 LGI 443 LGI 447 GGI 450 SGI 481	432 TGMMAQIPLAWFVGRFFQGNYGNAAVWLSL-IIGQPIAVLMYVHDYYVLNYEAPA 443 TAMMAQVPLAWIVGRFFQGNYGNAAVWVTL-IIGQPVAVLMYVHDYYVLNYDAPV 464 LGIMFQVPLV-FITNYLQERF-GSTVGNMIFWFIFCIFGQPMCVLLYYHDLMNRKGS 464 LGIMFQVPLV-FITNYLQERF-GSTVGNMIFWFIFCIFGQPMCVLLYYHDLMNRKGS 443 LGIMLQIPLI-VLTAYLKSKFRDTMVGNMIFWFFFCIYGQPMCVLLYYHDLMNRIEK 447 GGIMFQVPLV-LITNYLQNKFRNSMVGNMIFWFIFSILGQPMCVLLYYHDLMNRKGK 450 SGIMFQIPLL-FLTKYLQDKFKNTMVGNMIFWFFFSIVGQPMCVLLYYHDVMNRQAQ 481	TAVLMYVHDYYVLNYEAPA VAVLMYVHDYYVLNYDAPV MCVLLY YHDLMNRKGS MCVLLY YHDLMNRKGS MCVLLY YHDVMNRIEK MCVLLY YHDVMNRIEK MCVLLY YHDVMNRQAQ
gi3746533_human SEQ25_mouse SEQ26_Arab SEQ2_Arab SEQ14_rice SEQ16_soy SEQ16_soy	486 AEA 497 G-V 519 MS- 519 MS- 499 AR- 503 LD- 506 TNG	488 498 520 520 500 504 504	